



FACULTY  
SCHOLARSHIP  
*Celebration*

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Western  
Carolina  
UNIVERSITY

2016 marks the 27th year that Hunter Library has acknowledged and presented an exhibit of Western Carolina University faculty's scholarly and artistic works. This year's exhibit features over 96 works created over past year. These scholarly works include articles, books and book chapters, poster presentations, works of art and literature, musical performances, etc. It is Hunter Library's goal that visitors to the exhibit will be inspired by the many ways in which WCU's faculty express their creativity and contribute to human knowledge. This is also the 29th year that a Hunter Scholar Award is being presented and the 1st year that 88 grant proposals written and awarded over the past year are being recognized.

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## ACKNOWLEDGMENTS

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Farzaneh Razzaghi, Ph.D.  
Dean of Hunter Library



## LIST OF PARTICIPANTS

In the display cases entries have been grouped by schools. The following list is in alphabetical order.

- Aderinto, S.** & Osifodunrin, P. (2015). 500 children are missing in Lagos: Child kidnapping and public anxiety in colonial Nigeria. In S. Aderinto (Ed.), *Children and childhood in colonial Nigerian histories* (pp. 97-122). New York: Palgrave Macmillan.
- Aderinto, S.** (2015). Framing the colonial child: Childhood memory and self representation in autobiographical writing. In S. Aderinto (Ed.), *Children and childhood in colonial Nigerian histories* (pp. 169-199). New York: Palgrave Macmillan.
- Aderinto, S.** (2015). Introduction: Colonialism and the invention of modern Nigerian childhood. In S. Aderinto (Ed.), *Children and childhood in colonial Nigerian histories* (pp. 1-18). New York: Palgrave Macmillan.
- Aderinto, S.** (2015). Modernizing love: Gender, romantic passion, and youth literary culture in colonial Nigeria. *Africa: The Journal of the International African Institute*, 85(3), 478-500.
- Aderinto, S.** (2015). O! Sir I do not know either to kill myself or to stay: Childhood emotion, poverty, and literary culture in Nigeria, 1900-1960. *Journal of the History of Childhood and Youth*, 8(2), 273-294.
- Aderinto, S.** (2015). Yakubu Gowon: The challenge of nation building. In A. O. Nwauwa & J. O. Adekunle (Eds.), *Nigerian political leaders: Visions, actions, and legacies* (pp. 230-248). Glassboro, New Jersey: Goldline & Jacobs Publishing.
- Aderinto, S.** (2015). Youth of Awo-Omama will boycott their girls: Men, marriage, and ethno-cultural nationalism in southern Nigeria, 1920s-1956. In P. Dominguez & S. Wendt (Eds.), *Masculinities and the nation in the modern world: Between hegemony and marginalization* (pp. 243-267). New York: Palgrave Macmillan.
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- Barnes, J. A.**, Curry, C. P., Russell, E. D., & Schaubroeck, L. E. (2015). Emerging Julia Sets. *Mathematics Magazine*, 88(2), 91-102.
- Bauknecht, F.** (2015). *Rusty GOLD* [painting on metal].
- Bauknecht, F.** (2015). *Startled Calf* [painting on recycled barn wood].
- Bobilya, A. J.**, Daniel, B., Kalisch, K. R. (2015). Autonomous student experiences: Are they too risky for today's outdoor adventure program? In R. Black & K. Bricker (Eds.), *Adventure programming and travel for the 21st Century* (pp. 353-357). Champaign, IL: Human Kinetics.
- Bobilya, A. J.**, Holman, T., Lindley, B. & McAvoy, L. H. (2015). Changing landscapes: Trends in North American adventure programming. In R. Black & K. Bricker (Eds.), *Adventure programming and travel for the 21st Century* (pp. 11-17). Champaign, IL: Human Kinetics.

- Bobilya, A.**, Kalisch, K., Daniel, B., & Coulson, E. (2015). An investigation of participants' intended and actual transfer of learning following an Outward Bound wilderness experience. *Journal Of Outdoor Recreation, Education, And Leadership*, 7(2), 93-111. doi:http://dx.doi.org/10.18666/JOEL-2015-V7-I2-7006
- Bricker, P.**, Faetz, M., **Tracy, K. N.**, & **Luke, N.** (2015). Poetry rocks. *Science & Children*, 53(3), 38-45.
- Browder, L. K. & **De Silva, C. R.** (2015, April). *Synthesis, characterization, and luminescent studies of Europium-doped GdF<sub>3</sub> nanoparticles for potential biomedical imaging*. Poster presented at National Conference for Undergraduate Research (NCUR), Eastern Washington University, WA.
- Browder, L. K. & **De Silva, C. R.** (2015, November). *Luminescent enhancement of Europium (III)-doped GdF<sub>3</sub> nanoparticles by surface modification*. Poster presented at **Combined Southeastern Regional Meeting of the American Chemical Society and the Southwest Regional Meeting**, Memphis, TN.
- Bryant, C., & **Shapiro, D. A.** (2015). *Gaining a stutter, finding my voice*. Paper presented at the 18th International Stuttering Awareness Day Online Conference.
- Buchanan, H.** & **McDonough, B.** (in press). Right on time: Best practice in one-shot instruction. In Patrick Ragains & M. Sandra Wood (Eds.), *The new information literacy instruction*. Lanham, MD: Rowman & Littlefield.
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- Calcagno, P. T. & **Lopez, E. J.** (2015, November). The evolution of federal budget rules and the effects on fiscal policy: How informal norms have trumped formal constraints. *Mercatus Working Paper*. Arlington, VA: Mercatus Center at George Mason University.
- Collins, T. A.** & **Cooper, C. A.** (2015). Making the cases real: Media coverage of the U.S. Supreme Court. *Political Communication*, 32(1), 23-42.
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- Dostilio, L. D. & **Perry, L.** (2015). An explanation of community engagement professionals as professionals and leaders. In L. D. Dostilio (Ed.), *Community Engagement Professionals Project: Establishing a preliminary competency model for second generation CEPs* (pp. 3-22). Boston: Campus Compact.



- Dragan, N. A., Darsanasiri, N. D., Lee, J. M., Bose, I., & De Silva, C. R.** (2015, November). *Synthesis, characterization, and antimicrobial studies of Manganese (III) and Europium (III) metal-doped ZnO nanoparticles*. Poster presented at **Combined Southeastern Regional Meeting of the American Chemical Society and the Southwest Regional Meeting**, Memphis, TN.
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- Hong, P., Marvel, J. H., & Modi, S.** (2015). A survey of business network integration: Implications for quality and productivity performance. *International Journal of Productivity and Quality Management*, 15(2), 131-152.
- Iglesias-Diaz, A., Tanaka M. L., Yanik, P. M., & Ball, A. K.** (2015, June). *Investigating the effect of tennis ball impact location*. Paper presented at, Summer Biomechanics, Bioengineering and Biotransport Conference, Salt Lake City, Utah.
- Jensen, C. P., Pearce, M., Beasley, J., Dinkelmeyer, B. D., & De Silva, C. R.** (2015, November). *Role of the substituent effects on the luminescent efficiency of Phenazine-based Europium  $\beta$ -diketonate complexes, A density functional theory study*. Poster presented at **Combined Southeastern Regional Meeting of the American Chemical Society and the Southwest Regional**, Memphis, TN.
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- Karayaka, H. B., Holland, L. T., Tanaka, M. L., & Ball, A.** (in press). Power systems: Thermal load characterization and regulation. In S. Anwar (Ed.), *Encyclopedia of energy engineering and technology*, 2nd Ed. New York: Taylor & Francis.
- Kaul, S. & Stone, W.** (2015, June). *Learning outcomes of a junior-level Project-Based Learning (PBL) Course: Preparation for capstone*. Paper presented at American Society for Engineering Education 2015 Annual Conference & Exposition, Seattle, WA.
- Kaul, S.** (2015). Maxwell-Voigt and Maxwell Ladder models for multi-degree-of-freedom elastomeric isolation systems. *ASME Journal of Vibration and Acoustics*, 137(2), 021021-9.
- Kaul, S., Chang, A., Yanik, P., & Ferguson, C.** (2015, June). *Development of a mentorship program in engineering and engineering technology*. Paper presented at American Society for Engineering Education 2015 Annual Conference & Exposition, Seattle, WA.
- Kaul, S., Deaton, W., & Stewart, B.** (2015, November). Magnetorheological (MR) damping for vibration mitigation: An experimental analysis. In *ASME 2015 International Mechanical Engineering Congress & Exposition*, IMECE2015-50047. Houston: American Society of Mechanical Engineers.
- Lee, J. M., Attanayake, G., De Silva, C. R.** (2015, November). *Synthesis, characterization, and luminescent studies of Europium-doped NaYbF<sub>4</sub> nanoparticles*. Poster presented at **Combined Southeastern Regional Meeting of the American Chemical Society and the Southwest Regional Meeting**, Memphis, TN.
- Lee, J., Darsanasiri, N., Dragan, N., & De Silva, C. R.** (2015, April). *Synthesis, characterization, and photo-catalytic studies of ZnO nanoparticles doped with Europium or Manganese metal ions for potential clinical applications*. Poster presented at National Conference for Undergraduate Research (NCUR), Eastern Washington University, WA.
- Lefler, L. J.** (2015). Water and Cherokee healing. In L. King (Ed.), *Recovery, renewal, reclaiming: Anthropological research toward healing* (pp. 159-177). Knoxville: University of Tennessee Press.
- Lopez, E.** (2015). Introduction to the Public Choice Society at 50 Years Symposium. *Public Choice*, 163(1), 1-5.
- McCurry, J., Wilfong, A., Styles, P., & Tanaka, M. L.** (2015, June). *High performance multi-terrain luxury wheel chair*. Poster session presented at Summer Biomechanics, Bioengineering and Biotransport Conference, Salt Lake City, Utah.
- McDonough, B.** (2015). Beyond tools and skills: Putting information back into information literacy. In T. A. Swanson & H. Jagman (Eds.), *Not just where to click: Teaching students how to think about information* (pp. 37-51). Chicago: Association of College and Research Libraries.
- McLachlan, J.** (2015). Coercion and persuasion in Mormon and Process Theologies. *Element: The Journal of Mormon Philosophy and Theology*, 6(1), 71-78.
- McLachlan, J.** (2015). Hell is others and Paradise is others: Hell in the existential Paris of Sartre and Berdyaev. In R. Arp & B. McGraw (Eds.), *The concept of Hell* (pp. 32-48). New York: Palgrave Macmillan.
- McLachlan, J.** (2015). Mormonism and the problem of evil. In P. Barlow & T. Givens (Eds.), *Oxford handbook on Mormonism* (pp. 276-291). Oxford: Oxford University Press.
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- McNelis, E. K., Tanaka, A. L., & Tanaka, M. L.** (2015, March). *Controlled random walks and postural stability regions*. Paper presented at Mathematical Association of America Southeastern Section, Wilmington, NC.
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Ogletree, B. T. (2015). Meeting the complex communication needs associated with genetic syndromes: A call to interprofessional education and practice. *Perspectives on Augmentative and Alternative Communication*, 24(3), 67-71.

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Spencer, C. & Perry, A. (in press). Helping students maximize their degree as a competitive tool: The value of experiential learning. *William and Mary Educational Review*, 4(2).

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Tanaka, M. L. (2015, June). *Teaching undergraduate design: An approach based on industrial experience*. Poster session presented at Summer Biomechanics, Bioengineering and Biotransport Conference, Salt Lake City, Utah.

Tapley, E. (2015). *Naturally - dyed quilt with marble overlay* [media].

Tapley, E. (2015). *Tribology*. [media - 48" x 60" marbled paper on canvas].

Walsh, A. & Vaske, J. (2015). *Feminist criminology through a biosocial lens (2nd edition)*. Durham, NC: Carolina Academic Press.

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Yan, Y., Zhang, J. Z., & Karayaka, H. B. (2015). A comparison of edge detectors in the framework of wake pattern modeling for wind turbines. *International Journal of Prognostics and Health Management*, 6(28), 1-12.

Zanglein, J. & Frolik, L. (2015). *ERISA litigation 5th Edition, 2015 supplement*. Arlington, VA: Bloomberg BNA.

Zanglein, J. et al. (2015). *2016 tax facts on insurance and employee benefits*. National Underwriters.



## GRANT WRITERS AND AWARDEES

**Bates, P.** (2015). *Grandfather Restoration Project first effects monitoring*. Grant proposal submitted to the US Department of Agriculture, National Forest Service.

**Bates, P.** (2015). *Prescribed fire effects in oak-hickory, yellow pine, and high elevation red oak communities in the southeastern United States*. Grant proposal submitted to the US Department of Agriculture, National Forest Service.

**Birkhofer, M.** (2015). *Latina/o Speakers Series Talks with Judith Ortiz Cofer*. Grant proposal submitted to the North Carolina Humanities Council.

**Borchelt, N., & Despeaux, S.** (2015). *Smokey Mountain Math Teachers' Circle and the North Carolina Math Teachers' Network*. Grant proposal submitted to the GlaxoSmithKline Foundation.

**Byrd, B.** (2015). *Regional survey of mosquito control knowledge and usage in NC*. Grant proposal submitted to the Pesticide Environmental Trust Fund via East Carolina University.

**Byrd, B., & McCoy, J.** (2015). *Antiviral and larvicidal activities of North Carolina botanical and endophytic extracts*. Grant proposal submitted to the North Carolina Biotechnology Center.

**Cagle, W.** (2015). *The Duke Energy Undergraduate Summer Internship Program*. Grant proposal submitted to the Duke Energy Cooperation via North Carolina Small Business and Technology Development Center.

**Cagle, W.** (2015). *Funding for the regional Small Business and Technology Development Center at Western Carolina University*. Grant proposal submitted to the North Carolina Small Business and Technology Development Center.

**Cagle, W.** (2015). *Procurement Technical Assistance Program*. Grant proposal submitted to the North Carolina Small Business and Technology Development Center.

**Carpenter, D.** (2015). *Instructional coaching support for the North Carolina New Teacher Support Program in GEAR UP Yancey and McDowell Counties*. Grant proposal submitted to the US Department of Education via University of North Carolina – General Administration.

**Carton, R.** (2015). *2015 faculty liaison*. Grant proposal submitted to the North Carolina Small Business and Technology Development Center.

**Carzoli, J., & Lunnen, K.** (2015). *Assessments of musculoskeletal health and a preventative education program to reduce musculoskeletal injuries and enhance musculoskeletal health in migrant and seasonal farmworkers*. Grant proposal submitted to the Centers for Disease Control and Prevention via University of Kentucky, Central Appalachian Regional Education and Research Center.

**Coan, H.** (2015). *Keratin hydrogels to promote increased engraftment and survival of human cardiac stem cells under in vitro model ischemic*. Grant proposal submitted to the National Institutes of Health.

**Collins, S.** (2015). *Community engaged and lifelong learning in nurse anesthesia education*. Grant proposal submitted to the Health Resource and Services Administration.

**Collins, T.** (2015). *WNC Food Policy Council Training and Outreach Program*. Grant proposal submitted to the Community Foundation of Western North Carolina via Southwestern North Carolina Planning and Economic Development Commission.

**Costa, J., & Bricker, P.** (2015). *NSF-Noyce: STEM Locally-Oriented Community-Aligned Learning*. Grant proposal submitted to the National Science Foundation via North Carolina State University.

**Cruz, L.** (2015). *Western North Carolina Leadership Initiative*. Grant proposal submitted to the Cherokee Preservation Foundation.

**Cruz, L., Huffman, C., Pinter, H., Penley, J., Catley, K., & Rose, T.** (2015). *Discovery: Students and teachers engaging minds*. Grant proposal submitted to the North Carolina Department of Public Instruction via Swain County Schools.

**Cruz, L., Snyder, E., & Diede, M.** (2015). *The innovative classroom at WCU: Empowering visionary teaching and learning*. Grant proposal submitted to Steelcase.

**Davis, L.** (2015). *Student Support Services at Western Carolina University*. Grant proposal submitted to the US Department of Education.

**Despeaux, S.** (2015). *Smokey Mountain Math Teachers' Circle Seed Grant II*. Grant proposal submitted to the American Institute of Mathematics.

**Drury, D., Brown, G., & Kirkpatrick, J.** (2015). *Visual arts: To support the creation of new works of outdoor sculpture that are inspired by and engage people with the Great Smoky Mountains National Park*. Grant proposal submitted to the National Endowment for the Arts.

**Duncan, P.** (2015). *2016 Spring Literary Festival*. Grant proposal submitted to the North Carolina Arts Council.

**Evanoff, D.** (2015). *Acquisition of a Malvern Zetasizer Nano ZS for the facilitation of multi-disciplinary research at Western Carolina University*. Grant proposal submitted to the North Carolina Biotechnology Development Center.

**Evanoff, D., & Bintz, B.** (2015). *Development of SERS-active forensic evidence swabs for rapid, non-destructive confirmatory serological screening and STR typing of human bodily fluids*. Grant proposal submitted to the National Institute of Justice.

**Fariello, A., & Skene, E.** (2015). *Great Smoky Mountains: A Park for America*. Grant proposal submitted to the North Carolina Library Services & Technology Act via North Carolina State Library.

**Ford, T.** (2015). *Collaborative research: Social and emotional consequences of sexist humor for women*. Grant proposal submitted to the National Science Foundation.

**Gardner, P., Karayaka, B., & Lyvers, S.** (2015). *STTR: Advanced IV Control System*. Grant proposal submitted to the National Institutes of Health, National Institute of Nursing Research via Infinitus Medical Technologies, LLC.

**Gochenour, Z., Rader, S., & Lopez, E.** (2015). *Free enterprise educational activities at WCU*. Grant proposal submitted to the Charles Koch Foundation.

**Goins, T.** (2015). *Center for American Indian and Alaska Native Precision Medicine on Dementia and Alzheimer's Disease*. Grant proposal submitted to the National Institutes of Health via University of Colorado, Denver.

**Goins, T.** (2015). *Native-Controlling Hypertension and Risk Through Technology (Native-CHART)*. Grant proposal submitted to the National Institutes of Health via Washington State University.

**Goins, T.** (2015). *NIDDK Center for Diabetes Translation Research*. Grant proposal submitted to the National Institutes of Health via University of Colorado, Denver.

**Grisedale, K., Bintz, B., & Hickman, M.** (2015). *Development and optimization of emerging technologies for forensic analysis of compromised samples*. Grant proposal submitted to the National Institute of Justice.

**Haas, J.** (2015). *31st Annual Tuck River Cleanup*. Grant proposal submitted to the Jackson County Travel and Tourism.

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